## <u>Claims</u>

We claim:

- 5 1. A reaction mixture comprising a surface adsorbing polymer in a buffered solution, wherein:
  - a) the quantity of said surface adsorbing polymer of said reaction mixture reduces adsorption of an organic material to a surface;
    - b) said surface adsorbing polymer binds non-covalently to said surface;
- 10 c) said surface adsorbing polymer is not one of the reactants of said fluid operation or is added in excess of the amount normally added to said reaction mixture; and
  - d) said surface adsorbing polymer does not inhibit the fluid operation.
- 2. The reaction mixture according to claim 1, wherein said reaction mixture is for use in a fluid operation selected from the group consisting of a mixing step, an incubation, a dilution, a titration, a detection, a drug screening assay, a binding assay, a measuring assay and a biochemical reaction.
- 3. The reaction mixture according to claim 2, wherein said reaction mixture is selected from the group consisting of a Polymerase Chain Reaction mixture, a Ligase Chain Reaction mixture, a primer extension reaction mixture, a genotyping reaction mixture and a microsequencing mixture.
- 4. The reaction mixture according to claim 1, wherein said surface adsorbing polymer has a molecular weight of at least 5×10<sup>4</sup> daltons.
  - 5. The reaction mixture according to claim 2, wherein said surface adsorbing polymer has a molecular weight of at least  $5 \times 10^4$  daltons.
- 30 6. The reaction mixture according to claim 3, wherein said surface adsorbing polymer has a molecular weight of at least  $5 \times 10^4$  daltons.

- 7. The reaction mixture according to claim 4, wherein said surface adsorbing polymer has a molecular weight of at least  $1 \times 10^6$  daltons.
- 8. The reaction mixture according to claim 5, wherein said surface adsorbing polymer has a molecular weight of at least 1×10<sup>6</sup> daltons.
  - 9. The reaction mixture according to claim 6, wherein said surface adsorbing polymer has a molecular weight of at least  $1\times10^6$  daltons.
- 10. The reaction mixture according to claim 1, 2, 3, 4, 5, 6, 7, 8, or 9, wherein said surface adsorbing polymer is selected from the group consisting of polyacrylamides, N-isopropylacrylamides, polydimethylacrylamides, propylene glycols, ethylene glycols, polypropylene glycols, polypropylene oxides, polypropylene oxides, polypropylene oxides and polyethylene oxides, polydimethylsiloxanes and polyvinylpyrolidones.

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11. The reaction mixture according to claim 1, 2, 3, 4, 5, 6, 7, 8, or 9, wherein said surface adsorbing polymer is a block-copolymer comprising two or more polymers selected from the group consisting of polyacrylamides, N-isopropylacrylamides, polydimethylacrylamides, propylene glycols, ethylene glycols, polypropylene glycols, polyethylene glycols, propylene oxides, ethylene oxides, polypropylene oxides and polyethylene oxides, polydimethylsiloxanes and polyvinylpyrolidones.